

In response to that Office Action, please amend the above-identified application as follows, pursuant to 37 C.F.R. §§ 1.121(h) and 1.173(b) (relating to reissue applications):¹

IN THE CLAIMS

Please amend Claims 56 and 58, and add new Claims 69-84, to read as follows.

56. (Four Times Amended) A display apparatus comprising:

an electron source plate including:

a substrate, and

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a plurality of electron emission elements arranged in a matrix

of rows and columns on said substrate, each electron emission element including:

a first electrode disposed on an upper surface of said

substrate,

a second electrode disposed on the upper surface of

said substrate, said first and second electrodes both lying in substantially a same plane that

is substantially parallel to the upper surface of said substrate; and

1/ Claims 56, 58, and 69-84 are shown above completely underlined, since they have been added in this reissue application (see, e.g., MPEP § 1453). Applicants understand that it is not necessary to include a marked-up version of amended Claims 56 and 58 on any separate pages, since this is a reissue application (see, e.g., 37 C.F.R. §§ 1.121(h) and 1.173(b)).

an electron-emission layer having an electron emission region included in at least a portion thereof, said electron emission region containing an electrical discontinuity, at least a portion of said electron-emission layer extending from a surface of the first electrode to a surface of the second electrode, for emitting an electron from the electron emission region upon an application of a low voltage across said first and second electrodes;

a matrix wire configuration comprising row wires and column wires respectively corresponding to the rows and columns of the electron emission elements arranged in the matrix;

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row wires, and (ii) a modulation signal to the column wires corresponding to the scanned electron emission elements, to cause a low voltage to be applied across the first and second electrodes of each electron emission element, wherein the signal applier applies the modulation signal to the column wires in synchronization with the application of the scan signal to the row wires; and

a fluorescent device plate including:
a transparent substrate,
a fluorescent layer,
an acceleration electrode, and
an acceleration voltage applier, arranged for applying an acceleration voltage to the acceleration electrode.

E1
cont

wherein a space between the electron source plate and the fluorescent device plate is maintained in a vacuumized condition by a housing, and the signal applier is disposed outside of the housing.

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58. (Amended) The display apparatus of Claim 56, wherein said electron emission region comprises a conductive region and an insulating region so that the electrical discontinuity takes place between the conductive region and the insulating region.

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69. (New) A display apparatus comprising:

a housing for maintaining a vacuumized condition in a space between an electron source plate and a fluorescent device plate having a fluorescent layer and an acceleration electrode, the electron source plate having a plurality of electron-emitting devices arranged in a matrix of rows and columns and a matrix configuration of row wires and column wires respectively corresponding to the rows and columns of the electron-emitting devices arranged in the matrix; and

a signal applier disposed outside of the housing for applying (1) a scan signal to the row wires, (2) a modulation signal to column wires, and (3) an acceleration voltage to the acceleration electrode to accelerate electrons emitted from the electron-emitting devices toward the fluorescent layer of the fluorescent device plate.

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70. (New) The display apparatus of Claim 69, wherein the modulation signal is an information signal.

71. (New) The display apparatus of Claim 69, wherein the modulation signal is applied simultaneously to the scanned electron-emitting devices in synchronization with the scan signal.

72. (New) The display apparatus of Claim 69, wherein the fluorescent device plate comprises red, green, and blue fluorescent members.

E3
cont

73. (New) The display apparatus of Claim 43, wherein the fluorescent device plate comprises a laminated layer having the fluorescent layer and the acceleration electrode.

74. (New) The display apparatus of Claim 69, further comprising an electrode disposed between the fluorescent device plate and the electron-emitting devices.

75. (New) The display apparatus of Claim 74, wherein the electrode has holes for transmitting the electrodes emitted from the electron-emitting devices.

76. (New) The display apparatus of Claim 73 or 74, wherein a voltage is applied to the electrode.

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77. (New) The display apparatus of Claim 75, wherein each of the holes is arranged to correspond with each electron-emitting device.

78. (New) The display apparatus of Claim 69, wherein at least one of the electron-emitting devices comprises a non-homogeneous layer.

79. (New) The display apparatus of Claim 69, wherein at least one of the electron-emitting devices comprises an electrical discontinuity.

80. (New) The display apparatus of Claim 69, wherein at least one of the electron-emitting devices comprises carbon.

*E3
cont*

81. (New) The display apparatus of Claim 69, wherein at least one of the electron-emitting devices comprises a first electrode arranged on a substrate, an insulating member arranged on the substrate so that an end of the insulating member forms a side wall on the substrate, and a second electrode arranged on the insulating member.

82. (New) The display apparatus of Claim 81, wherein an electron-emitting portion is formed at a region of the side wall.

83. (New) The display apparatus of Claim 81, wherein an electron-emitting portion is formed at a region of the first electrode.